- 1. (Amended) A method of forming a semiconductor-on-insulator structure, comprising the steps of:
- a) forming a structure having porous semiconductor material at a first surface thereof;

b)sealing said surface; [introducing an oxidizing species into said porous semiconductor material; and, either before or after step b),]

- c) forming an epitaxial semiconductor layer on said porous semiconductor material

 <u>after said sealing;[introducing]</u>
- d) implanting an oxidizing species through said epitaxial layer into said porous semiconductor material;[,] and
- <u>e)</u> reacting said oxidizing species with said porous semiconductor material to form a buried dielectric layer beneath said epitaxial layer.

Amend claim 4 as follows:

- 4. (Amended) A method of forming a semiconductor-on-insulator structure, comprising the steps of:
 - a) anodizing a silicon wafer to form porous silicon;
- b) sealing said surface; [introducing oxygen into said porous silicon; and, either before or after step b),]
- c) forming a semiconductor layer on said porous silicon <u>after said sealing;</u>[, and]

 <u>d) implanting an oxidizing species through said epitaxial layer into said porous semiconductor material; and</u>

e) reacting said oxygen with said porous semiconductor material to form a buried oxide layer.

Amend claim 6 as follows:

- 6. (Amended) A method of forming a semiconductor-on-insulator structure, comprising the steps of:
 - a) partially anodizing a silicon wafer to form porous silicon; and thereafter
 - b) sealing said surface;
- c) forming an epitaxial semiconductor layer on said porous silicon; [and thereafter;]
- <u>d) implanting</u> [introducing] oxygen into said porous silicon <u>through said</u> <u>epitaxial semiconductor layer;[,]</u> and
 - e) reacting said oxygen with said porous silicon to form a buried oxide layer.

Add the following claims:

- 12. The method of claim 1 wherein said step of sealing includes heating said porous semiconductor material in a hydrogen ambient.
- 13. The method of claim 4 wherein said step of sealing includes heating said porous semiconductor material in a hydrogen ambient.
- 14. The method of claim 6 wherein said step of sealing includes heating said porous semiconductor material in a hydrogen ambient.